

### Amendment to the Specification

Please replace the paragraph beginning on line 3 of page 2 of the specification with the following paragraph:

This is a continuation in part of the patent application of A. Joseph Mueller, et al., Serial No. 09/472,383 filed December 23, 1999, now abandoned, entitled *Home Networking Using Existing DSL Equipment*, ~~pending~~, the contents of which are incorporated by reference herein.

Please replace the paragraph beginning on line 6 of page 2 of the specification with the following paragraph:

The present invention relates generally to the field of telecommunications and more particularly to a system and method for providing a local area network spectrally adjacent to a wide area network utilizing remote discrete multitone (DMT) transceivers.

Please replace the paragraph beginning on page 12 line 3 with the following paragraph:

In an exemplary embodiment, the first DMT transceiver 10<sub>[[4]]</sub> and the second DMT transceiver 14<sub>[[0]]</sub> coordinate a set of DMT carriers utilized for data transmission between the first DMT transceiver 10 and the second DMT transceiver 14. For example, the first DMT transceiver 10 and the second DMT transceiver 14 may coordinate the usage of the frequency spectrum transmitted over the local CPE loop 50 by dividing the frequency spectrum into N discrete subchannels. The center frequency of each subchannel corresponds to the frequency of a carrier. For example, the DMT standard for ADSL, ANSI T1.413, specifies 256 carriers, each with a 4.3125 kHz bandwidth and a center frequency equal to  $i \cdot 4.3125$  kHz where  $i$  is the carrier number and ranges from  $i = 1$  to 256. According to the preferred embodiment, the first DMT

transceiver 10 and the second DMT transceiver 14 coordinate a subset of those 256 carriers, each preferably 4.3125 kHz wide, such that the set of carriers provides a communication link between the first DMT transceiver 10 and the second DMT transceiver 14. Data may then be modulated onto each carrier of the set of carriers providing a communication link between the first DMT transceiver 10 and the second DMT transceiver 14.